EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE August 6, 1971

Operator El Paso Natural Gas Company	Lease Wayahn No. 1)	Vaughn No. 14		
Location 1500'S, 1460'W, Sec. 27, T-26-N, R-	County	State New Mexico		
Formation Dakota	Pool Basin	H -		
Casing: Diameter 4.500 Set At: Feet 7199	Tubing: Diameter 2.375	Set At: Feet 7125		
Pay Zone: From 6812 To 7120	Total Depth: 7200	Shut In 7-27-71		
Stimulation Method Sand Water Frac	Flow Through Casing	Flow Through Tubing XXX		

Choke Size, Inches 0.750		Choke Constant: C 12.365				
Shut-In Pressure, Casing, 2579	PSIG	+ 12 = PSIA 2591	Days Shut-In 10	Shut-In Pressure, Tubing 2091	PSIG	+ 12 = PSIA 2103
Flowing Pressure: P	PSIG	+ 12 = PSIA 370		Working Pressure: Pw 1195	PSIG	+ 12 = PSIA 1207
Temperature: T= 83 ∘F	Ft= .9786	n = 0.75		Fpv (From Tobles)		Gravity .700 Fg = .9258

CHOKE VOLUME = Q = C × P_t × F_t × F_g × F_{PV}

$$Q = (12.365)(370)(.9786)(.9258)(1.038) = 4302 MCF/D$$

OPEN FLOW = Aof = Q
$$\begin{pmatrix} \frac{2}{P_c} \\ \frac{2}{P_c} \\ P_c \\ P_w \end{pmatrix}$$
 Note: Well blew a heavy spray of water and distillate throughout test.

Aof =
$$\begin{pmatrix} 6713281 \\ 5256432 \end{pmatrix}$$
 = $(4302)(1.2771)^{.75} = (4302)(1.2013)$

5168 ___ MCF/D

OIL CON, COM.

TESTED BY ____ Dannie R. Roberts WITNESSED BY__